



Amendment to the Specification

At specification page 1, after the paragraph beginning with "[t]his is a nationalization," insert the following headings:

BACKGROUND OF THE INVENTION

1. Field of the Invention

At specification page 1, replace the paragraph beginning with "[t]he invention has to do with" with the following replacement paragraph:

The invention ~~has to do with~~ relates to a mechanism for setting the density of ink dots on a print substrate ~~according to~~ ~~the first portion of Claim 1.~~

At specification page 1, after the paragraph beginning with "[t]he invention relates to," insert the following heading:

2. Description of the Prior Art

At specification page 1, replace the paragraph beginning with "[t]he formulation" with the following replacement paragraph:

The ~~formulation terminology~~ "towards" ~~in the first portion of Claim 1 as used herein~~ is to be understood in reference to the transfer direction of the ink by means of the respective rollers.

At specification page 2, after the paragraph beginning with "[a]s an alternative thereto," insert the following heading:

SUMMARY OF THE INVENTION

At specification page 2, replace the paragraph beginning with "[t]he problem is resolved" with the following replacement paragraph:

The problem is resolved by means of the ~~distinguishing characteristics of Claim 1~~ mechanism and method described herein.

At specification page 4, after the paragraph beginning with "[w]ith the invention-related method," insert the following heading:

BRIEF DESCRIPTION OF THE DRAWINGS

At specification page 4, after the paragraph beginning with "[f]igure 4" (i.e., the brief description of Figure 4), insert the following heading and new paragraph:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Further scope of applicability of the present invention will become apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred embodiments of the invention, are given by way of illustration

only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.

At specification page 5, replace the paragraph beginning with "[f]igure 1 shows" with the following replacement paragraph:

Figure 1 shows a sketch of the implementation of the generally common method for application of printing ink to a print substrate with the aid of a familiar rotary printing ~~machines~~ machine inking unit 1. The printing ink is introduced from an ink tank (not depicted) via lines and pumps (also not shown) through ink chamber coating 2 in a way that the ink chamber coating 2 always contains a certain volume of printing ink. The ink chamber coating 2 is thereby to be regarded as an ink reservoir. Now if the ink chamber coating 2 traverses an ink fountain 8 of the anilox roller 3 then this fountain 8 is subsequently filled to the brim with printing ink and thus reaches the printing roller 4. The printing roller 4 now takes up a part of the printing ink. A certain remainder of the printing ink remains, though, in the fountain 8. This type of breaking up of the printing ink is generally characterized as color separation. Upon another traversing of the ink stored in the ink chamber coater 2 the reservoir is again filled up to the upper brim so that the ink transfer process can start once more.

At specification page 7, replace the paragraph beginning with “[o]n the way between” with the following replacement paragraph:

On the way between the second ink chamber coater 12 and the print substrate 5 fresh ink is now able to etch the film. Both parts of the printing ink can ~~commix~~ co-mix. The printing ink now contained in the ink fountain 8 has a slightly elevated color pigment portion in relation to the original printing ink. On the print substrate 5, an increased ink density can be subsequently observed that leads to a heightened intensity in the corresponding color.

At specification page 7, replace the paragraph beginning with “[w]ith the mechanism” with the following replacement paragraph:

With the mechanism shown in Figure 4, the color pigment portion in the printing ink can be raised or lowered as need be. For this reason, the mechanism shown in Fig. 3 has been expanded by an additional controllable air nozzle 19 that is arranged in the transfer direction behind the second ink chamber coater 12. First, the considered ink fountain 8 in the ink chamber coater 2 is completely filled with printing ink. After traversing the bellows stream from the air nozzle 9, less solution is located in the printing ink and a film has built up. While traversing the second

ink chamber coater 12 the missing ink in the ink reservoir 8 is introduced. The second air nozzle 9 is arranged in such a way that it then blows onto the ink fountain 8 if the printing ink in the ink reservoir has sufficiently commixed co-mixed. The use of the second air nozzle 19 leads to the additional evaporation of solution so that on the one hand the fill volume of the ink reservoir 8 is decreased but simultaneously the ink particle portion is raised. Using the appropriate settings on both the air nozzles 9, 19, this method allows for the ink density on the print substrate 5 to be finely adjusted with regard to the ink density preset by the printing ink and other parameters of influence so that various color intensities are represented without the printing process having to be interrupted.

At specification page 7, after the last line, insert the following new paragraph:

The invention being thus described, it will be apparent that the same may be varied in many ways. Such variations are not to be regarded as a departure from the spirit and scope of the invention, and all such modifications as would be recognized by one skilled in the art are intended to be included within the scope of the following claims.

At specification page 9 (i.e., the first claims page), delete the heading in its entirety and replace the heading with the following replacement heading:

WHAT IS CLAIMED IS: